

**AGENCY FOR INTERNATIONAL DEVELOPMENT  
PPC/CDIE/DI REPORT PROCESSING FORM**

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**1. Project/Subproject Number**

497-0357

**2. Contract/Grant Number**

497-C-00-98-00045-00

**3. Publication Date**

June 29, 2000

**4. Document Title/Translated Title**

A Comparison of the Development of Small and Medium/Large Indonesian Manufacturing Enterprises,  
From 1986 To 1996 By Sector

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**6. Contributing Organization (s)**

Nathan/Checchi Joint Venture/PEG Project

**7. Pagination**

30

**8. Report Number**

PEG 23

**9. Sponsoring A.I.D. Office**

ECG, USAID/Jakarta

**10. Abstract (optional - 250 word limit)**

**11. Subject Keywords (optional)**

- |                              |    |
|------------------------------|----|
| 1. Indonesia                 | 4. |
| 2. Manufacturing Enterprises | 5. |
| 3.                           | 6. |

**12. Supplementary Notes**

**13. Submitting Official**

C. Stuart Callison, Chief of Party

**14. Telephone Number**

011-62-21-520-1047

**15. Today's Date**

3 September 2001

.....DO NOT write below this line.....

**16. DOCID**

**17. Document Disposition**

DOCRD [ ] INV [ ] DUPLICATE [ ]

# A COMPARISON OF THE DEVELOPMENT OF SMALL AND MEDIUM/LARGE INDONESIAN MANUFACTURING ENTERPRISES FROM 1986 TO 1996 BY SECTOR

Robert Rice and Irfan Abdullah, Partnership for Economic Growth Project at the State Office of the Minister for Cooperatives, Small and Medium Enterprises, June 29, 2000

The main purpose of this paper is to present data we have processed comparing the rates of growth of number of employees, number of enterprises and value-added in constant prices of small manufacturing enterprises compared with medium/large manufacturing enterprises from 1986 to 1996 by manufacturing sector, rather than to do an in depth analysis of this data. We hope that the making available of this data will benefit other analysts.

In this paper we have used Badan Pusat Statistik data and definitions. Small manufacturing enterprises are defined as enterprises having 5 to 19 employees (including unpaid ones and working owners), medium as having 20 to 99, and large as having 100 or more employees. The sources of data are the 1986 and 1996 Statistik Industri, Sensus Ekonomi 1986: Statistik Industri Kecil 1986, and unprocessed data from Badan Pusat Statistik for Small Enterprises in 1996 (from the 1996 Economic Census). The value-added figures are in current market prices but the annual compound rates of growth of value-added are provided both in current prices and in real terms (Real rate of growth) after deflating the value-added figures using the GDP manufacturing sector deflator for 1986 to 1996. Although we have included data in this paper at the two, three and four digit levels for manufacturing sectors for the nation as a whole, the small sample size for the small enterprises results in large confidence intervals especially at the three and four digit levels, so this data must be used with extreme caution. We have included in the tables the confidence intervals for the value-added data at the two, three and four digit levels for 1996, but not for 1986<sup>1</sup>.

This paper is prepared by the Partnership for Economic Growth (PEG)<sup>1</sup>, a joint USAID-Government of Indonesia Project. In our work we have had the strong support and assistance of the Office of the State Minister for Cooperatives, Small and Medium Enterprises, where the authors have their office.

Let us now briefly draw some of the main conclusions from this data.

1. **Table 1** shows that the **small manufacturing enterprise sector** was generally

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<sup>1</sup> PEG is a USAID-funded Project. The views expressed in this report are those of the author and not necessarily those of USAID, the U.S. Government or the Government of Indonesia.

dynamic and growing rapidly from 1986 to 1996, even though at an **annual compound real rate of growth of value-added of 11.9% per annum** its growth was slower than the M/L enterprises (15.9% per annum). The performance of small enterprises in sectors 33 and 36 (wood and furniture and nonmetallic mineral products (excluding products of petroleum and coal) was superb with growth rates exceeding those of M/L enterprises, while sectors 32 and 39 (textiles, garments and leather and other manufacturing industries) also grew very rapidly. Not only did small enterprises in these four sectors grow the fastest, but they also had the highest ratio of value-added to total value-added (Column 11). Although the growth in value-added of small enterprises in the very important food, beverages and tobacco (31) industries was much slower, in most countries its annual growth rate of 5.9% would be considered to be quite high.

2. In evaluating the performance of the small enterprises we must remember that their growth rates are increased by the entry of new enterprises into this category, and decreased by the growth of small enterprises into M/L ones. **Table 3** shows that the **annual compound rate of growth of number of small enterprises was 9.9%**, much higher than for M/L enterprises, but slightly lower than the real rate of growth of value-added, resulting in a **20% increase in real value-added per small manufacturing enterprise**. **Table 4** shows that the **annual compound rate of growth of employment** in small enterprises was 9.3%, slightly less than the 9.6% rate of growth of employment in M/L enterprises. This resulted in a **5% decrease in the average number of employees per small enterprise** from 8.15 to 7.74. The combination of these two resulted in a **26% increase in labor productivity** over the ten year period, or a quite high **annual compound rate of 2.3%**. In contrast, the **rate of growth of number of M/L enterprises was 6.1%**, compared with a rate of growth of value-added of 15.9%, resulting in a **142% increase in real value-added per enterprise** from 1986 to 1996. **Real value-added per employee increased 75%** during this period, a very large increase--almost three times that of the small enterprises.
3. **Tables 5 and 6** show that even though in 1996 small manufacturing enterprises accounted for **31 percent of total manufacturing employment** (excluding micro enterprises with 1-4 self-employed and other employees), they accounted for only **5.7 percent of the value-added**, with their **value-added per employee** being only Rp 2985 thousand compared with 9913 thousand and 24,268 thousand for the medium and large enterprises respectively(**Table 7**)<sup>2</sup>. However, in **sector 36** (nonmetallic products) 65 percent of total employment was accounted for by small enterprises, while in **sectors 31** (food, beverages and tobacco), **33** (wood, bamboo, rattan, willow and the like, including furniture), and **39** (other manufacturing industries) they accounted for more than 37 percent.

**Table 6** also shows that in the four sectors where the total percentage of employees accounted for by small enterprises is high (greater than 37%), their

percentage of value-added is also quite high (16-20%), except for sector 31.

4. **Tables 9 and 19** show that the **labor value-added per employee** in small enterprises in 1996 at Rp 950,000 per year was 46% of medium enterprises and only 24% of large enterprises. Although there is considerable variation in terms of the labor value-added of small, medium and large enterprises across sectors, for all the two and three digit sectors except 354, labor value-added per employee of small enterprises was smaller than for medium ones, and medium ones in turn smaller than for large ones. This is an indication that in general, larger firms pay higher wage rates and therefore have a greater incentive to substitute capital for labor which generally results in less labor being used per unit of value-added produced.

In **Table 9 Non-labor VA per Employee** and **Non-Labor VA/Labor VA** can be considered as proxy variables for capital-labor ratios, if two **assumptions are fulfilled:** 1)the depreciation periods for the machinery and equipment and buildings are the same for the small, medium and large enterprises, and 2)they are earning the same long-term "**normal" rate of profit** on their capital investment. Unfortunately most likely especially the first assumption is not fulfilled especially at the two digit level where the composition of products produced by the different sized enterprises varies substantially across industries, and therefore also their types of machinery and equipment and depreciation periods vary substantially. However, still the much larger ratios for the M/L enterprises compared with the small ones is some indication that indeed they are more capital intensive. **More research is needed** on the capital-labor and capital-output ratios of small compared with medium and large enterprises producing the same products, and their cost of production in social terms<sup>3</sup>.

5. **Table 7** also shows that in all the sectors at the two digit level the ratio of **value-added per employee** of the small enterprises to the large enterprises was 0.33 or less, although there is much variation in this ratio across the industries. Excluding industry 37 where the contribution of SEs to value-added is negligible, the ratios are smallest in **sectors 31 and 36** at 0.078 and 0.078 respectively, and still low but higher in **sectors 38** (fabricated metal products, machinery and equipment), **34** (paper and paper products, printing and publishing), and **35** (chemical, petroleum, coal rubber and plastic products) at 0.093, 0.143, and 0.158 respectively. However, the far right column in **Table 1** shows that value-added from small enterprises in **sectors 35, 37, and 38** is practically negligible at less than two percent of SML enterprise value-added. Casual empiricism suggests that in **sector 31** there is a lot of seasonal variation in output of especially the small enterprises, which likely partially accounts for the low values of this ratio.
6. For small enterprises, **Table 10** shows that **sector 364** (Clay products) accounted

for 66% of the value-added of **sector 36** in 1996. Its **value-added per employee** at Rp 1.7 million was the lowest in sector **36** and indeed was the lowest of all of the sectors at the three digit level, probably because of the seasonal nature of production of the small enterprises. However, because the value-added per employee of the large enterprises was also low at Rp 6.5 million, the **ratio** of the value-added per employee of the small enterprises to the large ones was not that low, namely 0.26. The low ratio of **sector 36** was caused mainly by the different composition of output of the small enterprises compared with the large ones, with **sector 364** accounting for 66% of the value-added of small enterprises in **sector 36**, but for large enterprises only 3%. **Sector 364** is indeed unique because it was the only sector at the three digit level in 1996 where the value-added of small enterprises was larger than M/L enterprises (**Table 15**)<sup>4</sup>. It was also unusual, as was **Sector 331** (Manufacture of wood, bamboo, rattan, willow and the like), in that its value-added was large and its real rate of growth of value-added appears to be almost double that of the M/L enterprises (see **Table 10**).

The low ratios of **value-added per employee** of small enterprises relative to large ones suggest that they are less capital-intensive (lower ratio of capital to labor) although they do not prove it<sup>5</sup>. If small enterprises producing the same products as big enterprises are able to compete with them even though their labor productivity is much lower, their competitiveness is likely due to two factors--lower wage rates paid and savings in the use of machinery and equipment (i.e. capital).

**To summarize**, the two digit sectors in which the **small enterprises** were the most important in terms of value-added relative to the M/L enterprises (32, 33, 36, and 39) also had fast and the fastest growing real value-added. **It is encouraging** that even during this 1986-96 period when the business climate for small enterprises was mediocre, these important sectors along with three other sectors could still grow rapidly. Two sectors in which small enterprises were relatively important, sectors 31 and 36, were unusual because their value-added per employee was very low partly because much of the work was seasonal.

It is encouraging when large sectors in which small enterprises are important are growing rapidly, because this is an indication that they are competitive and therefore also have a good potential for growth in the future. **However, this is not always true.** For example, even though sector 331 (wood, bamboo, rattan willow and like products) has grown very rapidly in the past, shortages of domestically supplied wood will limit its growth in the future, given that using imported wood will likely make the industry uncompetitive in world markets. This is unlike many labor-intensive industries where Indonesian enterprises can still be competitive in world markets using imported materials, such as the clothing (322), footwear (324), the labor-intensive parts of the electronics (3832), jewelry, sports equipment, toy, and handicraft industries (industries 3901, 3903, 3904, and 3906). For some other sectors future growth is limited by the slow rate of growth in domestic

demand, with the industry not being sufficiently competitive to export to world markets. This is the case for some of the food and beverage industries and perhaps also printing.

Overall with an improvement in the business climate in the coming years there is no reason why the growth rate of small enterprise manufacturing industries cannot exceed that from 1986 to 1996. The challenge to society in general and the Government in particular is to create a favorable business climate and facilitate the provision of the support services necessary to enable this very important potential both in terms of income and productive employment generation to be fully realized.

## End Notes

1. For a discussion of the data analysis methods see the Appendix.
2. One gets a quite different picture if we include micro manufacturing enterprises along with small ones. In Indonesia micro enterprises are usually known as household and cottage industries. Total employment of these micro and small enterprises in 1996 was 6,613,848 out of total manufacturing employment of 10,828815, or 61 percent of total manufacturing employment (see Saleh et al, Table 6). We have focused only on small, medium and large enterprises, because persons working in micro enterprises often only work in manufacturing during part of the year or part-time, earning substantial portions of their income from other activities such as farming and trading. These are probably the main reasons their value-added per employee in 1996 was only Rp 1172 thousand compared with Rp 2985 for the small ones. Micro manufacturing enterprises also generally have less potential to grow to become larger ones. However, micro manufacturing activities are extremely important in providing additional sources of incomes to rural families during agricultural slack periods and in providing additional sources of income, especially to women.
3. Because of very extensive unemployment in Indonesia (both open and disguised) especially in the densely populated islands like Java, the opportunity cost (social cost) of unskilled labor in areas with large unemployment is substantially less than the market wage rate. When we calculate the social cost of production the main adjustment we must make is to use the social cost of unskilled labor instead of the money cost. Other adjustments may also have to be made such as for any external diseconomies (such as pollution) or external economies resulting from the production process. If small manufacturing enterprises are more unskilled labor intensive than large ones, it is quite possible that the social cost of production per unit of output of a small enterprise is less than the social cost of production of a large enterprise, even though the small enterprise's money cost of production is greater. This is because the small enterprises use relatively more unskilled labor (whose social cost is less than the money cost) and less capital per unit of output. This condition will result in enterprises with low social cost of production but high money cost of production being eliminated through free market competition--an undesirable outcome in social or welfare terms. **More research is needed** on the commonness and importance of this phenomenon.
4. Notice that even taking into account the sampling error, at the 95% confidence level we know that the actual value-added of sector 364 was between Rp 435 and 512 million in 1996 (Table 11), which was much larger than the Rp 160 million value-added of the M/L enterprises.
5. Hal Lary was one of the first, if not the first, researchers to argue that non-labor value added can be used as a proxy variable for capital.

## REFERENCES

Lary, Hal, Imports of Manufactures from Less Developed Countries

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## APPENDIX

In this study we have examined the rates of growth of small manufacturing enterprises from 1986 to 1996 and compared them with medium and large manufacturing enterprises, as well as compared their sizes. We have used data published by the Badan Pusat Statistik (Central Statistical Body). The publications used were Sensus Ekonomi Statistik Industri Kecil 1986, Survey Tahunan Perusahaan Industri Besar dan Sedang 1986, and Statistik Industri Besar dan Sedang 1996. In 1996 the small manufacturing enterprise data were calculated using unprocessed data on a CD-ROM obtained from Badan Pusat Statistik. We have prepared tables at the 2, 3 and 4 digit International Standard Industrial Classification level.

We converted the data for M/L manufacturing industries at the five digit level to the four digit level to make them comparable to the small enterprise manufacturing data available. This is because the most detailed breakdown of the small enterprise data was at the four digit level. The 4 digit tables are not included with this paper but can be obtained from Deputy Assistant for Information and Business Publication, Ministry of Cooperatives and SME Development, JI.HR Rasuna Said Kav.3-5 Jakarta 12940, phone : 021-5262972.

The data totals for small enterprises from the 1986 and 1996 Economic Census are based on a sample, which is then blown up to become the estimation of the totals for the whole population. Using the data from the CD Rom from BPS we did this for 1996. Thus we had to calculate the **sampling error** and use this to estimate the **confidence intervals** at the 95% probability level which are shown in **Tables 2, 12 and 22**. For the data at the three and four digit levels the relative standard error is quite large (and for some sectors the relative standard error is very large). For example in sector 3143 [regular (white) cigarettes] the relative standard error is 96.4%, while for sector 3321 (furniture and fixtures made out of bamboo and rattan) it is only 5.7%. Therefore we must exercise great caution in comparing small manufacturing enterprise variables in 1996 with 1986, also because there is sampling error in both the 1986 and 1996 figures (in 1986 it might even be bigger). This situation is caused by the small size of the small enterprise sample, which in many cases was not large enough to compare accurately the 1986 and

1996 small enterprise variables at the three and four digit levels, and therefore the data must be used with extreme caution. We have only listed the confidence intervals for value-added, because this is the most important indicator of the small enterprises' activity. There is no sampling error problem for the M/L enterprises because the whole population was surveyed. Of course for all the enterprises there is still the problem of **measurement error**, for which we have no estimations.

We also calculated the annual compound growth rate of value-added in real terms. In doing this we calculated the GDP deflator for manufacturing industries and used it to convert the 1996 valued-added into value-added in 1986 prices. Even though it would be better to have a deflator for each sector because certainly rates of price increases varied by sector, using the GDP deflator still gives us a useful although somewhat inaccurate picture of the changes in value-added in real terms for the individual sectors. However, since the same deflator was used for the small and M/L enterprises, using this deflator has little effect on estimates of the growth rates of real value-added of the small relative to the M/L enterprises.

### **Klasifikasi Lapangan Usaha Indonesia Sektor Industri Pengolahan**

- 31 Industri makanan, minuman dan tembakau - *Manufacture of food, beverages and tobacco products*
- 32 Industri tekstil, pakaian jadi dan kulit - *Manufacture of textile, garments and leathers*
- 33 Industri kayu, bambu, rotan, rumput dan sejenisnya, termasuk perabot rumah tangga - *Manufacture of wood, bamboo, rattan, willow products and the like, including furniture*
- 34 Industri kertas dan barang dari kertas, percetakan dan penerbitan - *Manufacture of paper and paper products, printing and publishing*
- 35 Industri kimia dan barang-barang dari bahan kimia, minyak bumi, batu bara, karet dan plastik - *Manufacture of chemical, petroleum, coal, rubber and plastic products*
- 36 Industri barang galian bukan logam, kecuali minyak bumi dan batu bara - *Manufacture of nonmetallic mineral products, except products of petroleum and coal*

- 37 Industri logam dasar - *Basic metal industries*
- 38 Industri barang dari logam, mesin dan peralatannya - *Manufacture of fabricated metal products, machinery and equipment*
- 39 Industri pengolahan lainnya - *Other manufacturing industries*

Sumber : Biro Pusat Statistik, Statistik Industri Besar dan Sedang, Kode Klasifikasi Industri, 1996

### **Klasifikasi Lapangan Usaha Indonesia Sektor Industri Pengolahan**

- 311-312 Industri makanan - *Manufacture of food*
- 313 Industri minuman - *Manufacture of beverages*
- 314 Industri pengolahan tembakau dan bumbu rokok - *Manufacture of processed tobacco and cigarette flavors*
- 321 Industri tekstil - *Manufacture of textiles*
- 322 Industri pakaian jadi, kecuali untuk alas kaki - *Manufacture of clothes except footwear*
- 323 Industri kulit dan barang dari kulit, kecuali untuk alas kaki - *Tanneries and leather finishing, products from leather except footwear*
- 324 Industri alas kaki - *Manufacture of footwear*
- 331 Industri kayu, bambu, rotan rumput dan sejenisnya - *Manufacture of wood, bamboo, rattan, willow and like products*
- 332 Industri perabotan dan kelengkapan rumah tangga serta alat dapur dari kayu, bambu dan rotan - *Manufacture of furniture and fixtures; kitchen utensils of wood, bamboo and rattan products*
- 341 Industri kertas, barang dari kertas dan sejenisnya - *Manufacture of paper, paper products and the like*

- 342 Industri percetakan dan penerbitan - *Printing, publishing and allied industries*
- 351 Industri bahan kimia industri - *Manufacture of industrial chemicals*
- 352 Industri kimia lain - *Other chemical industries*
- 353 Industri pemurnian dan pengilangan minyak bumi, serta gas bumi - *Petroleum refineries and natural gas*
- 354 Industri barang-barang dari hasil kilang minyak bumi dan batu bara - *Manufacture of products of petroleum refineries and coal*
- 355 Industri karet dan barang dari karet - *Manufacture of rubber and rubber products*
- 356 Industri barang dari plastik - *Manufacture of plastic products*
- 361 Industri porselein - *Manufacture of porcelain*
- 362 Industri gelas dan barang dari gelas - *Manufacture of glass and glass products*
- 363 Industri semen, kapur dan barang dari semen dan kapur - *Manufacture of cement, lime and products of cement and lime*
- 364 Industri pengolahan tanah liat - *Manufacture of clay products*
- 369 Industri barang galian lain bukan logam - *Manufacture of other nonmetallic mineral products*
- 371 Industri logam dasar besi dan baja - *Iron and steel basic industries*
- 372 Industri logam dasar bukan besi - *Non ferrous metal basic industries*
- 381 Industri barang dari logam, kecuali mesin dan peralatannya - *Manufacture of fabricated metal products, except machinery and equipment*
- 382 Industri mesin dan perlengkapannya, kecuali mesin listrik - *Manufacture of machineries except electrical*
- 383 Industri mesin, peralatan dan perlengkapan listrik serta bahan keperluan listrik - *Manufacture of electrical machineries, apparatus, appliances and*

*supplies*

- |     |  |
|-----|--|
| 384 | Industri alat angkutan - <i>Manufacture of transport equipments</i>  |
| 385 | Industri peralatan profesional, ilmu pengetahuan, pengukur dan pengatur<br>- <i>Manufacture of profesional, scientific, measuring and controlling equipments</i> |
| 390 | Industri pengolahan lainnya - <i>Other manufacturing industries</i>  |

Sumber : Biro Pusat Statistik, Statistik Industri Besar dan Sedang, Kode Klasifikasi Industri,1996

Table 1

1986-1996 Rates of Growth of Value Added and The Ratios of Value Added of Small to All<sup>1</sup> Enterprises by Manufacturing Sector<sup>2</sup>  
*Laju Pertumbuhan Nilai Tambah dan Rasio Nilai Tambah Perusahaan Kecil Terhadap Seluruh<sup>1</sup> Perusahaan Sektor Industri Pengolahan 1986-1996<sup>2</sup>*

KKKP <sup>3</sup>	Value Added Small Enterprises (000 Rp) <i>Nilai Tambah Perusahaan Kecil (000 Rp)</i>		Rate of Growth <i>Laju Pertumbuhan</i> 1986-1996 (%)	Real Rate <sup>4</sup> of Growth <i>Laju Pertumbuhan</i> Rill <sup>4</sup> 1986-1996 (%)	Value Added Medium & Large Enterprises (000 Rp) <i>Nilai Tambah Perusahaan Sedang &amp; Besar (000 Rp)</i>		Rate of Growth <i>Laju Pertumbuhan</i> 1986-1996 (%)	Real Rate of Growth <i>Laju Pertumbuhan</i> Rill 1986-1996 (%)	(VA Small)/(VA Total) <i>(NT Kecil)/(NT Total)</i>	
	1986	1996			1986	1996			1986	1996
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
31	287,499,738	1,257,393,430	15.90	5.92	2,763,495,542	17,594,386,073	20.34	10.36	0.09	0.07
32	131,857,348	1,336,810,954	26.07	16.09	1,340,058,444	15,908,912,595	28.07	18.09	0.09	0.08
33	111,135,290	1,373,229,272	28.59	18.61	958,175,213	6,863,991,589	21.76	11.78	0.10	0.17
34	48,259,862	245,748,130	17.68	7.70	307,157,964	4,815,774,275	31.68	21.70	0.14	0.05
35	51,716,736	162,207,238	12.11	2.13	1,381,084,221	12,189,978,813	24.33	14.35	0.04	0.01
36	72,005,764	715,066,036	25.80	15.82	482,335,736	3,748,766,831	22.76	12.78	0.13	0.16
37	na	20,276,928	na	na	786,930,938	9,851,356,056	28.75	18.77	na	0.00
38	52,139,102	313,393,272	19.64	9.66	1,289,795,534	21,657,986,616	32.59	22.61	0.04	0.01
39	20,689,754	168,334,723	23.32	13.34	39,448,931	682,315,194	32.98	23.00	0.34	0.20
TOTAL	775,303,596	5,592,459,982	21.85	11.87	9,348,482,523	93,332,461,700	25.87	15.89	0.08	0.06

1.All (total) enterprises in these tables do not include enterprises with 4 or less paid or unpaid employees. All rates of growth in these tables are annual compound rates of growth.

Total perusahaan dalam tabel ini tidak termasuk perusahaan dengan 4 atau kurang tenaga kerja dibayar atau tidak dibayar. Semua laju pertumbuhan dalam tabel ini merupakan laju pertumbuhan gabungan per tahun.

2.Our calculation using the data from BPS on CD ROM give us this total value added small enterprises in 1996 which is 3.3% larger than BPS figure published in Small Scale Manufacturing Industries Statistics 1996.

This difference has a very minimum effect on the annual compound growth rates, so in all the 1996 figures we have used the figures we obtained from the CD ROM.

Hasil perhitungan kami dengan menggunakan data dari BPS dalam CD ROM untuk total nilai tambah perusahaan kecil tahun 1996 lebih besar 3.3% dibandingkan hasil perhitungan BPS yang diterbitkan dalam Statistik Industri Kecil 1996. Perbedaan ini mempunyai pengaruh yang sangat kecil terhadap laju pertumbuhan gabungan, sehingga untuk hasil 1996 kami tetap menggunakan hasil yang diperoleh dari CD ROM.

3.KKKP is the International Standard Industrial Classification modified to local conditions in Indonesia.

KKKP adalah kode klasifikasi industri standar internasional yang telah disesuaikan dengan kondisi Indonesia.

4.The real rate of growth is calculated after using GDP Deflator for manufacturing industries to convert the 1996 value into equivalent value in 1986 prices.

Laju pertumbuhan rill dihitung dengan menggunakan PDB deflator untuk industri pengolahan dengan mengubah nilai tahun 1996 menjadi nilai yang setara menggunakan harga 1986.

Table 2  
 Confidence Interval (95%) of Value Added of Small Enterprises by Manufactruring Sector 1996  
*Selang Kepercayaan (95%) Nilai Tambah Perusahaan Kecil Sektor Industri Pengolahan 1996*

KKKP	Value Added (000 Rp) <i>Nilai Tambah (000 Rp)</i>				
	Estimated <i>Estimasi</i>	Standard Error <i>Galat Baku</i>	RSE (%) <sup>5</sup> <i>RGB (%)</i> <sup>5</sup>	Est.-1.96SE <i>Est.-1.96GB</i>	Est.+1.96SE <i>Est.+1.96GB</i>
(1)	(2)	(3)	(4)	(5)	(6)
31	1,257,393,430	69,146,800	5.50	1,121,865,702	1,392,921,159
32	1,336,810,954	62,054,024	4.64	1,215,185,067	1,458,436,842
33	1,373,229,272	67,043,474	4.88	1,241,824,064	1,504,634,480
34	245,748,130	27,562,091	11.22	191,726,432	299,769,828
35	162,207,238	14,218,646	8.77	134,338,691	190,075,785
36	715,066,036	27,310,451	3.82	661,537,552	768,594,520
37	20,276,928	4,016,924	19.81	12,403,756	28,150,099
38	313,393,272	18,637,443	5.95	276,863,882	349,922,661
39	168,334,723	19,213,795	11.41	130,675,685	205,993,760
TOTAL	5,592,459,982	124,921,446	2.23	5,347,613,947	5,837,306,016

5.RSE is the ratio (in percentage term) of standard error to the estimated figure. Based on the sampling error, there is a 95% probability that the true figure lies between Est.-1.96SE and Est.+1.96SE  
*RGB adalah rasio (dalam persentase) galat baku terhadap hasil estimasi. Berdasarkan kesalahan sampling, terdapat kemungkinan 95% bahwa nilai yang sebenarnya berada antara Est.-1.96 Galat Baku dan Est.+1.96 Galat Baku.*

Table 3  
 1986-1996 Rates of Growth of Enterprises and The Ratios of Number of Small Enterprises to Total Number of Enterprises by Manufacturing Sector<sup>6</sup>  
*Laju Pertumbuhan Perusahaan dan Rasio Perusahaan Kecil Terhadap Total Perusahaan Sektor Industri Pengolahan 1986-1996*<sup>6</sup>

KKKP	Number of Small Enterprises <i>Jumlah Perusahaan Kecil</i>		Rate of Growth <i>Laju Pertumbuhan</i> 1986-1996 (%)	Number of Medium and Large Enterprises <i>Jumlah Perusahaan Sedang dan Besar</i>		Rate of Growth <i>Laju Pertumbuhan</i> 1986-1996 (%)	(Small Enterprises)/ (Total Enterprises) (Perusahaan Kecil)/ (Total Perusahaan)	
	1986	1996		1986	1996		1986	1996
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
31	38,925	81,887	7.72	3,875	5,608	3.77	0.91	0.94
32	15,068	37,954	9.68	2,852	5,230	6.25	0.84	0.88
33	14,393	45,047	12.09	1,160	3,145	10.49	0.93	0.93
34	2,348	6,236	10.26	602	1,035	5.57	0.80	0.86
35	2,596	4,477	5.60	1,591	2,581	4.96	0.62	0.63
36	13,582	49,892	13.90	1,208	2,158	5.97	0.92	0.96
37	na	592	na	30	182	19.76	na	0.76
38	5,018	9,560	6.66	1,272	2,596	7.39	0.80	0.79
39	2,604	6,422	9.45	175	462	10.19	0.94	0.93
TOTAL	94,534	242,067	9.86	12,765	22,997	6.07	0.88	0.91

6. Our calculation using the data from BPS on CD ROM give us this total number of enterprises in 1996 which is 0.02% larger than the BPS figure published in Small Scale Manufacturing Industry Statistics 1996  
*Hasil perhitungan kami dengan menggunakan data dari BPS dalam CD ROM untuk jumlah total perusahaan tahun 1996 lebih banyak sebesar 0.02% dibandingkan hasil perhitungan BPS yang diterbitkan dalam Statistik Industri Kecil 1996*

Table 4  
 1986-1996 Rates of Growth of Employees and The Ratios of Number of Employees of Small Enterprises to Total Number of Employees  
 by Manufacturing Sector<sup>7</sup>

*Laju Pertumbuhan Pekerja dan Rasio Pekerja Perusahaan Kecil Terhadap Total Pekerja Sektor Industri Pengolahan 1986-1996<sup>7</sup>*

KKKP	Number of Employees of Small Enterprises <i>Jumlah Pekerja Perusahaan Kecil</i>		Rate of Growth <i>Laju Pertumbuhan</i> 1986-1996 (%)	Number of Employees of Medium & Large Enterprises <i>Jumlah Pekerja Perusahaan Sedang &amp; Besar</i>		Rate of Growth <i>Laju Pertumbuhan</i> 1986-1996 (%)	(Employees of Small)/ (Total Employees) (Pekerja Prsh. Kecil)/ (Total Pekerja)	
	1986	1996		1986	1996		1986	1996
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
31	318,722	639,640	7.21	520,069	810,221	4.53	0.38	0.44
32	132,718	322,532	9.29	389,072	1,354,716	13.29	0.25	0.19
33	106,080	337,674	12.28	181,452	562,231	11.97	0.37	0.38
34	21,476	51,015	9.04	62,531	165,390	10.21	0.26	0.24
35	24,906	38,816	4.54	245,419	485,701	7.06	0.09	0.07
36	106,063	352,533	12.76	80,980	190,308	8.92	0.57	0.65
37	na	5,076	na	16,894	50,420	11.55	na	0.09
38	39,577	73,350	6.36	181,641	523,438	11.16	0.18	0.12
39	20,602	52,632	9.83	13,377	72,542	18.42	0.61	0.42
TOTAL	770,144	1,873,268	9.30	1,691,435	4,214,967	9.56	0.31	0.31

7. Our calculation using the data from BPS on CD ROM give us this total number of employees of small enterprises in 1996 which is 0.02% larger than BPS figure published in Small Scale Manufacturing Industry Statistics 1996

*Hasil perhitungan kami dengan menggunakan data dari BPS dalam CD ROM untuk jumlah total pekerja perusahaan kecil tahun 1996 lebih banyak 0.02% dibandingkan hasil perhitungan BPS yang diterbitkan dalam Statistik Industri Kecil 1996*

Table 5  
 Value Added, Number of Enterprises and Employees by Manufacturing Sector 1996  
*Nilai Tambah, Jumlah Perusahaan dan Pekerja Sektor Industri Pengolahan 1996*

KKKP	Value Added (000 Rp)			TOTAL	Number of Enterprises			TOTAL	Number of Employees			TOTAL			
	<i>Nilai Tambah (000 Rp)</i>				<i>Jumlah Perusahaan</i>				<i>Jumlah Pekerja</i>						
	Small <i>Kecil</i>	Medium <i>Sedang</i>	Large <i>Besar</i>		Small <i>Kecil</i>	Medium <i>Sedang</i>	Large <i>Besar</i>		Small <i>Kecil</i>	Medium <i>Sedang</i>	Large <i>Besar</i>				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)			
31	1,257,393,430	1,230,135,845	16,364,250,228	18,851,779,503	81,887	4,441	1,167	87,495	639,640	162,849	647,372	1,449,861			
32	1,336,810,954	619,442,505	15,289,470,090	17,245,723,549	37,954	3,517	1,713	43,184	322,532	132,939	1,221,777	1,677,248			
33	1,373,229,272	516,914,804	6,347,076,785	8,237,220,861	45,047	2,212	933	48,192	337,674	83,500	478,731	899,905			
34	245,748,130	269,699,339	4,546,074,936	5,061,522,405	6,236	739	296	7,271	51,015	29,991	135,399	216,405			
35	162,207,238	963,213,796	11,226,765,017	12,352,186,051	4,477	1,521	1,060	7,058	38,816	67,276	418,425	524,517			
36	715,066,036	413,939,785	3,334,827,076	4,463,832,867	49,892	1,850	308	52,050	352,533	62,310	127,998	542,841			
37	20,276,928	1,289,973,073	8,561,382,983	9,871,632,984	592	74	108	774	5,076	3,792	46,628	55,496			
38	313,393,272	808,365,420	20,868,614,854	21,984,881,614	9,560	1,641	955	12,156	73,350	68,525	454,913	596,788			
39	168,334,723	72,187,157	610,128,037	850,649,917	6,422	322	140	6,884	52,632	12,644	59,898	125,174			
TOTAL	5,592,459,982	6,183,871,694	87,148,590,006	98,924,921,682	242,067	16,317	6,680	265,064	1,873,268	623,826	3,591,141	6,088,235			

Table 6  
 Percentages of Total Value Added, Enterprises and Employees by Manufacturing Sector 1996  
*Persentase Total Nilai Tambah, Perusahaan dan Pekerja Sektor Industri Pengolahan 1996*

KKKP	Per. of Total Value Added <i>Persentase Total Nilai Tambah</i>			Per. of Total Enterprises <i>Persentase Total Perusahaan</i>			Per. of Total Employees <i>Persentase Total Pekerja</i>		
	Small <i>Kecil</i>	Medium <i>Sedang</i>	Large <i>Besar</i>	Small <i>Kecil</i>	Medium <i>Sedang</i>	Large <i>Besar</i>	Small <i>Kecil</i>	Medium <i>Sedang</i>	Large <i>Besar</i>
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
31	6.67	6.53	86.80	93.59	5.08	1.33	44.12	11.23	44.65
32	7.75	3.59	88.66	87.89	8.14	3.97	19.23	7.93	72.84
33	16.67	6.28	77.05	93.47	4.59	1.94	37.52	9.28	53.20
34	4.86	5.33	89.82	85.76	10.16	4.07	23.57	13.86	62.57
35	1.31	7.80	90.89	63.43	21.55	15.02	7.40	12.83	79.77
36	16.02	9.27	74.71	95.85	3.55	0.59	64.94	11.48	23.58
37	0.21	13.07	86.73	76.49	9.56	13.95	9.15	6.83	84.02
38	1.43	3.68	94.92	78.64	13.50	7.86	12.29	11.48	76.23
39	19.79	8.49	71.72	93.29	4.68	2.03	42.05	10.10	47.85
TOTAL	5.65	6.25	88.10	91.32	6.16	2.52	30.77	10.25	58.98

Table 7

Value Added per Enterprise, Value Added per Employee and Number of Employee per Enterprise by Manufacturing Sector 1996  
*Nilai Tambah per Perusahaan, Nilai Tambah per Pekerja dan Jumlah Pekerja per Perusahaan Sektor Industri Pengolahan 1996*

KKKP	Value Added per Enterprise (000 Rp) <i>Nilai Tambah per Perusahaan (000 Rp)</i>				Value Added per Employee (000 Rp) <i>Nilai Tambah per Pekerja (000 Rp)</i>				Employees per Enterprise <i>Jumlah Pekerja per Perusahaan</i>			
	Small Kecil	Medium Sedang	Large Besar	All Seluruh	Small Kecil	Medium Sedang	Large Besar	All Seluruh	Small Kecil	Medium Sedang	Large Besar	All Seluruh
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
31	15,355	276,995	14,022,494	215,462	1,966	7,554	25,278	13,002	8	37	555	17
32	35,222	176,128	8,925,552	399,353	4,145	4,660	12,514	10,282	8	38	713	39
33	30,484	233,687	6,802,869	170,925	4,067	6,191	13,258	9,153	7	38	513	19
34	39,410	364,952	15,358,361	696,158	4,817	8,993	33,575	23,389	8	41	457	30
35	36,230	633,277	10,591,288	1,749,986	4,179	14,317	26,831	23,550	9	44	395	74
36	14,332	223,751	10,827,361	85,761	2,028	6,643	26,054	8,223	7	34	416	10
37	34,241	17,432,069	79,272,065	12,751,054	3,995	340,183	183,610	177,880	9	51	432	72
38	32,782	492,605	21,851,953	1,808,588	4,273	11,797	45,874	36,839	8	42	476	49
39	26,211	224,184	4,358,057	123,564	3,198	5,709	10,186	6,796	8	39	428	18
TOTAL	23,103	378,983	13,046,196	373,211	2,985	9,913	24,268	16,249	8	38	538	23

Table 8

Value Added, Labor Value Added and Non-Labor Value Added by Manufacturing Sector 1996  
*Nilai Tambah, Nilai Tambah Pekerja dan Nilai Tambah Non-Pekerja Sektor Industri Pengolahan 1996*

KKKP	Value Added (000 Rp)			TOTAL	Labor Value Added (000 Rp)			TOTAL	Non-Labor Value Added (000 Rp)			TOTAL			
	Nilai Tambah (000 Rp)				Nilai Tambah Pekerja (000 Rp)				Nilai Tambah Non-Pekerja (000 Rp)						
	Small Kecil	Medium Sedang	Large Besar		Small Kecil	Medium Sedang	Large Besar		Small Kecil	Medium Sedang	Large Besar				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)			
31	1,257,393,430	1,230,135,845	16,364,250,228	18,851,779,503	327,914,103	249,717,098	2,190,808,894	2,768,440,096	929,479,327	980,418,747	14,173,441,334	16,083,339,407			
32	1,336,810,954	619,442,505	15,289,470,090	17,245,723,549	415,990,255	228,717,734	3,736,921,577	4,381,629,566	920,820,700	390,724,771	11,552,548,513	12,864,093,984			
33	1,373,229,272	516,914,804	6,347,076,785	8,237,220,861	477,135,495	159,093,713	1,492,119,346	2,128,348,554	896,093,777	357,821,091	4,854,957,439	6,108,872,307			
34	245,748,130	269,699,339	4,546,074,936	5,061,522,405	74,244,324	86,308,962	907,509,707	1,068,062,993	171,503,806	183,390,377	3,638,565,229	3,993,459,412			
35	162,207,238	963,213,796	11,226,765,017	12,352,186,051	55,978,376	230,096,590	2,147,156,029	2,433,230,995	106,228,862	733,117,206	9,079,608,988	9,918,955,056			
36	715,066,036	413,939,785	3,334,827,076	4,463,832,867	254,678,911	103,021,799	760,468,008	1,118,168,718	460,387,124	310,917,986	2,574,359,068	3,345,664,148			
37	20,276,928	1,289,973,073	8,561,382,983	9,871,632,984	7,498,933	12,339,207	387,927,812	407,765,952	12,777,995	1,277,633,866	8,173,455,171	9,463,867,032			
38	313,393,272	808,365,420	20,868,614,854	21,984,881,614	111,670,253	203,473,603	2,679,590,750	2,994,734,606	201,723,019	604,891,817	18,189,024,104	18,990,147,008			
39	168,334,723	72,187,157	610,128,037	850,649,917	54,303,623	23,629,159	153,185,231	231,118,013	114,031,099	48,557,998	456,942,806	619,531,903			
TOTAL	5,592,459,982	6,183,871,694	87,148,590,006	98,924,921,682	1,779,414,274	1,296,397,865	14,455,687,354	17,531,499,493	3,813,045,708	4,887,473,829	72,692,902,652	81,393,422,189			

Table 9  
 Labor Value Added per Employee and Non-Labor Value Added per Employee by Manufacturing Sector 1996  
*Nilai Tambah Pekerja per Pekerja dan Nilai Tambah Non-Pekerja per Pekerja Sektor Industri Pengolahan 1996*

KKKP	Labor VA per Employee (000 Rp)				Non-Labor VA per Employee (000 Rp)				(Non-Labor VA)/(Labor VA)				(Non-Labor VA)/(Value Added)			
	NT Pekerja per Pekerja (000 Rp)				NT Non-Pekerja per Pekerja (000 Rp)				(NT Non-Pekerja)/(NT Pekerja)				(NT Non-Pekerja)/(Nilai Tambah)			
	Small Kecil	Medium Sedang	Large Besar	All Seluruh	Small Kecil	Medium Sedang	Large Besar	All Seluruh	Small Kecil	Medium Sedang	Large Besar	All Seluruh	Small Kecil	Medium Sedang	Large Besar	All Seluruh
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
31	513	1,533	3,384	1,909	1,453	6,020	21,894	11,093	2.83	3.93	6.47	5.81	0.74	0.80	0.87	0.85
32	1,290	1,720	3,059	2,612	2,855	2,939	9,456	7,670	2.21	1.71	3.09	2.94	0.69	0.63	0.76	0.75
33	1,413	1,905	3,117	2,365	2,654	4,285	10,141	6,788	1.88	2.25	3.25	2.87	0.65	0.69	0.76	0.74
34	1,455	2,878	6,702	4,935	3,362	6,115	26,873	18,454	2.31	2.12	4.01	3.74	0.70	0.68	0.80	0.79
35	1,442	3,420	5,132	4,639	2,737	10,897	21,699	18,911	1.90	3.19	4.23	4.08	0.65	0.76	0.81	0.80
36	722	1,653	5,941	2,060	1,306	4,990	20,112	6,163	1.81	3.02	3.39	2.99	0.64	0.75	0.77	0.75
37	1,477	3,254	8,320	7,348	2,517	336,929	175,291	170,532	1.70	103.54	21.07	23.21	0.63	0.99	0.95	0.96
38	1,522	2,969	5,890	5,018	2,750	8,827	39,984	31,821	1.81	2.97	6.79	6.34	0.64	0.75	0.87	0.86
39	1,032	1,869	2,557	1,846	2,167	3,840	7,629	4,949	2.10	2.06	2.98	2.68	0.68	0.67	0.75	0.73
TOTAL	950	2,078	4,025	2,880	2,036	7,835	20,242	13,369	2.14	3.77	5.03	4.64	0.68	0.79	0.83	0.82

Table 10  
 Value Added, Number of Enterprises and Number of Employees of All SML Manufacturing Enterprises 1986-1996  
*Nilai Tambah, Jumlah Perusahaan dan Pekerja Seluruh Perusahaan Sektor Industri Pengolahan 1986-1996*

KKKP	Value Added (000 Rp)		Rate of Growth <i>Laju Pertumbuhan</i> 1986-1996 (%)	Real Rate of Growth <i>Laju Pertumbuhan</i> <i>Ril</i> 1986-1996(%)	Number of Enterprises		Rate of Growth <i>Laju Pertumbuhan</i> 1986-1996 (%)	Number of Employees		Rate of Growth <i>Laju Pertumbuhan</i> 1986-1996 (%)				
	<i>Nilai Tambah (000 Rp)</i>				<i>Jumlah Perusahaan</i>			<i>Jumlah Pekerja</i>						
	1986	1996			1986	1996		1986	1996					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)				
31	3,050,995,280	18,851,779,503	19.98	10.00	42,800	87,495	7.41	838,791	1,449,861	5.63				
32	1,471,915,792	17,245,723,549	27.9	17.92	17,920	43,184	9.19	521,790	1,677,248	12.39				
33	1,069,310,503	8,237,220,861	22.65	12.67	15,553	48,192	11.97	287,532	899,905	12.09				
34	355,417,826	5,061,522,405	30.42	20.44	2,950	7,271	9.44	84,007	216,405	9.92				
35	1,432,800,957	12,352,186,051	24.04	14.06	4,187	7,058	5.36	270,325	524,517	6.85				
36	554,341,500	4,463,832,867	23.19	13.21	14,790	52,050	13.41	187,043	542,841	11.24				
37	na	9,871,632,984	na	na	na	774	na	na	55,496	na				
38	1,341,934,636	21,971,379,888	32.26	22.28	6,290	12,156	6.81	221,218	596,788	10.43				
39	60,138,685	850,649,917	30.33	20.35	2,779	6,884	9.49	33,979	125,174	13.93				
TOTAL	10,123,786,119	98,924,921,682	25.60	15.62	107,299	265,064	9.47	2,461,579	6,088,235	9.48				

Table 11

1986-1996 Rates of Growth of Value Added and The Ratios of Value Added of Small to All<sup>1</sup> Enterprises by Manufacturing Sector<sup>2</sup>  
*Laju Pertumbuhan Nilai Tambah dan Rasio Nilai Tambah Perusahaan Kecil Terhadap Seluruh<sup>1</sup> Perusahaan Sektor Industri Pengolahan 1986-1996<sup>2</sup>*

KKKP <sup>3</sup>	Value Added Small Enterprises (000 Rp) <i>Nilai Tambah Perusahaan Kecil (000 Rp)</i>		Rate of Growth <i>Laju Pertumbuhan</i>	Real Rate <sup>4</sup> of Growth <i>Laju Pertumbuhan Riil</i> 1986-1996 (%)	Value Added Medium & Large Enterprises (000 Rp) <i>Nilai Tambah Perusahaan Sedang &amp; Besar (000 Rp)</i>		Rate of Growth <i>Laju Pertumbuhan</i>	Real Rate of Growth <i>Laju Pertumbuhan Riil</i> 1986-1996 (%)	(VA Small)/(VA Total) <i>(NT Kecil)/(NT Total)</i>	
	1986	1996			1986	1996			1986	1996
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
311	166,589,344	691,458,210	15.30	5.32	767,171,909	6,202,285,932	23.24	13.26	0.18	0.10
312	92,820,796	485,810,997	18.00	8.02	307,526,653	1,660,249,605	18.37	8.39	0.23	0.23
313	5,260,996	35,844,873	21.15	11.17	123,473,022	891,957,442	21.86	11.88	0.04	0.04
314	22,828,602	44,279,350	6.85	(3.13)	1,565,323,958	8,839,893,094	18.90	8.92	0.01	0.00
321	32,397,726	226,116,599	21.45	11.47	1,099,224,623	9,611,781,707	24.21	14.23	0.03	0.02
322	71,445,072	828,089,509	27.76	17.78	165,038,710	3,271,592,591	34.81	24.83	0.30	0.20
323	9,396,860	91,287,613	25.53	15.55	30,831,603	287,588,253	25.02	15.04	0.23	0.24
324	18,617,690	191,317,234	26.24	16.26	44,963,508	2,737,950,044	50.82	40.84	0.29	0.07
331	58,095,274	713,777,272	28.51	18.53	930,425,999	5,871,319,737	20.23	10.25	0.06	0.11
332	53,040,016	659,452,000	28.66	18.68	27,749,214	992,671,852	43.01	33.03	0.66	0.40
341	11,962,362	43,688,445	13.83	3.85	124,943,637	3,135,066,079	38.02	28.04	0.09	0.01
342	36,297,500	202,059,685	18.73	8.75	182,214,327	1,680,708,196	24.88	14.90	0.17	0.11
351	6,870,186	6,921,098	0.07	(9.91)	487,181,061	5,255,540,395	26.85	16.87	0.01	0.00
352	30,262,566	56,287,814	6.40	(3.58)	479,636,913	3,175,908,656	20.81	10.83	0.06	0.02
353	124,128	0	(96.10)	(106.08)	na	144,024,198	na	na	na	0.00
354	277,368	577,553	7.61	(2.37)	na	33,516,497	na	na	na	0.02
355	6,386,666	32,437,757	17.65	7.67	285,362,129	1,735,371,182	19.78	9.80	0.02	0.02
356	7,795,822	65,983,016	23.81	13.83	128,904,118	1,845,617,885	30.49	20.51	0.06	0.03
361	98,358	1,020,119	26.35	16.37	34,560,727	763,400,231	36.28	26.30	0.00	0.00
362	485,756	7,992,393	32.32	22.34	121,086,057	860,935,662	21.67	11.69	0.00	0.01
TOTAL	775,303,596	5,592,459,982	21.85	11.87	9,348,482,523	93,332,461,700	25.87	15.89	0.08	0.06

1.All (total) enterprises in these tables do not include enterprises with 4 or less paid or unpaid employees. All rates of growth in these tables are annual compound rates of growth>

Total perusahaan dalam tabel ini tidak termasuk perusahaan dengan 4 atau kurang tenaga kerja dibayar atau tidak dibayar. Semua laju pertumbuhan dalam tabel ini merupakan laju pertumbuhan gabungan per tahun.

2.We use same data in these tables as for the 2 digit level.

Kami menggunakan data yang sama untuk tabel ini seperti untuk 2 digit.

3.KKKP is the International Standard Industrial Classification modified to local conditions in Indonesia.

KKKP adalah kode klasifikasi industri standar internasional yang telah disesuaikan dengan kondisi Indonesia.

4.The real rate of growth is calculated using the GDP Deflator for manufacturing industries to convert the 1996 values into equivalent values in 1986 prices.

Laju pertumbuhan riil dihitung dengan menggunakan PDB deflator untuk industri pengolahan dengan mengubah nilai tahun 1996 menjadi nilai yang setara menggunakan harga tahun 1996.

Table 12  
 Confidence Interval (95%) of Value Added of Small Enterprises by Manufacturing Sector 1996  
*Selang Kepercayaan (95%) Nilai Tambah Perusahaan Kecil Sektor Industri Pengolahan 1996*

KKKP	Value Added (000 Rp)				
	Nilai Tambah (000 Rp)				
	Est. <i>Estimasi</i>	Standard Error <i>Galat Baku</i>	RSE (%) <sup>5</sup> <i>RGB (%)</i> <sup>5</sup>	Est.-1.96SE <i>Est. -1.96GB</i>	Est.+1.96SE <i>Est. +1.96GB</i>
(1)	(2)	(3)	(4)	(5)	(6)
311	691,458,210	63,981,574.23	9.25	566,054,325	816,862,096
312	485,810,997	24,631,583.82	5.07	437,533,092	534,088,901
313	35,844,873	5,304,260.65	14.80	25,448,522	46,241,224
314	44,279,350	7,265,538.20	16.41	30,038,895	58,519,805
321	226,116,599	33,887,201.85	14.99	159,697,683	292,535,515
322	828,089,509	34,579,976.38	4.18	760,312,755	895,866,262
323	91,287,613	23,420,537.49	25.66	45,383,360	137,191,866
324	191,317,234	30,952,595.38	16.18	130,650,147	251,984,321
331	713,777,272	56,199,708.95	7.87	603,625,843	823,928,702
332	659,452,000	36,557,079.52	5.54	587,800,124	731,103,875
341	43,688,445	14,495,049.81	33.18	15,278,148	72,098,743
342	202,059,685	23,442,746.71	11.60	156,111,901	248,007,468
351	6,921,098	2,646,280.45	38.23	1,734,388	12,107,808
352	56,287,814	7,504,348.04	13.33	41,579,291	70,996,336
354	577,553	367,894.05	63.70	(143,519)	1,298,625
355	32,437,757	6,430,695.98	19.82	19,833,593	45,041,921
356	65,983,016	9,867,252.23	14.95	46,643,202	85,322,831
361	1,020,119	745,798.28	73.11	(441,645)	2,481,884
362	7,992,393	2,576,226.91	32.23	2,942,989	13,041,798
363	184,582,605	13,711,498.11	7.43	157,708,068	211,457,141
364	473,653,106	19,671,831.70	4.15	435,096,316	512,209,896
369	47,817,812	12,793,804.23	26.76	22,741,956	72,893,669
371	10,111,535	3,172,969.22	31.38	3,892,516	16,330,555
372	10,165,392	2,463,320.57	24.23	5,337,284	14,993,501
381	205,397,964	13,100,612.96	6.38	179,720,762	231,075,165
382	24,079,369	4,171,008.10	17.32	15,904,193	32,254,545
383	5,491,932	2,598,636.03	47.32	398,605	10,585,258
384	75,444,840	12,284,155.39	16.28	51,367,895	99,521,784
385	2,979,167	823,132.39	27.63	1,365,828	4,592,507
390	168,334,723	19,213,794.75	11.41	130,675,685	205,993,760
TOTAL	5,592,459,982	124,921,446.08	2.23	5,347,613,947	5,837,306,016

5.RSE is the ratio (in percentage terms) of standard error to the estimated figure. Based on the sampling error, there is a 95% probability that the true figure lies between Est.-1.96SE and Est.+1.96SE.

RGB adalah rasio (dalam persentase) galat baku terhadap hasil estimasi. Berdasarkan kesalahan sampling, terdapat kemungkinan 95% bahwa nilai yang sebenarnya berada antara Est.-1.96 Galat Baku dan Est. +1.96 Galat Baku.

Table 13  
 1986-1996 Rates of Growth of Enterprises and The Ratios of Number of Small Enterprises to Total Number of Enterprises by Manufacturing Sector  
*Laju Pertumbuhan Perusahaan dan Rasio Perusahaan Kecil Terhadap Total Perusahaan Sektor Industri Pengolahan 1986-1996*

KKKP	Number of Small Enterprises <i>Jumlah Perusahaan Kecil</i>		Rate of Growth <i>Laju Pertumbuhan</i> 1986-1996 (%)	Number of Medium and Large Enterprises <i>Jumlah Perusahaan Sedang &amp; Besar</i>		Rate of Growth <i>Laju Pertumbuhan</i> 1986-1996 (%)	(Small Enterprises)/(Total Enterprises) (Perusahaan Kecil)/(Total Perusahaan)	
	1986	1996		1986	1996		1986	1996
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
311	15,160	26,531	5.76	1,559	2,596	5.23	0.91	0.91
312	13,438	30,781	8.64	1,333	1,905	3.63	0.91	0.94
313	522	1,887	13.71	132	268	7.34	0.80	0.88
314	9,805	22,687	8.75	851	839	(0.14)	0.92	0.96
321	4,891	8,901	6.17	2,028	2,255	1.07	0.71	0.80
322	7,467	22,954	11.88	633	2,329	13.91	0.92	0.91
323	782	2,068	10.21	76	226	11.51	0.91	0.90
324	1,928	4,032	7.66	115	420	13.83	0.94	0.91
331	7,765	24,179	12.03	863	1,782	7.52	0.90	0.93
332	6,628	20,868	12.15	297	1,363	16.46	0.96	0.94
341	305	1,052	13.18	127	359	10.95	0.71	0.75
342	2,043	5,184	9.76	475	676	3.59	0.81	0.88
351	531	242	(7.56)	191	414	8.04	0.74	0.37
352	762	1,798	8.96	471	621	2.80	0.62	0.74
353	12	0	(90.18)	na	8	na	na	0.00
354	13	26	6.98	na	29	na	na	0.47
355	530	1,026	6.83	385	447	1.50	0.58	0.70
356	748	1,386	6.36	544	1,062	6.92	0.58	0.57
361	14	36	9.89	42	86	7.43	0.25	0.29
362	78	117	4.10	32	77	9.12	0.71	0.60
363	4,554	8,580	6.54	472	653	3.30	0.91	0.93
364	8,692	40,258	16.57	564	1,058	6.49	0.94	0.97
369	244	902	13.96	98	284	11.23	0.71	0.76
371	na	284	na	30	103	13.13	na	0.73
372	na	308	na	na	79	na	na	0.80
381	3,598	7,488	7.60	556	1,052	6.58	0.87	0.88
382	359	299	(1.81)	180	353	6.97	0.67	0.46
383	357	174	(6.95)	186	498	10.35	0.66	0.26
384	620	1,509	9.30	307	619	7.26	0.67	0.71
385	84	90	0.73	43	74	5.58	0.66	0.55
390	2,604	6,422	9.45	175	462	10.19	0.94	0.93
TOTAL	94,534	242,067	9.86	12,765	22,997	6.07	0.88	0.91

Table 14  
 1986-1996 Rates of Growth of Employees and The Ratios of Number of Employees of Small Enterprises to Total Number of Employees by Manufacturing Sector  
*Laju Pertumbuhan Pekerja dan Rasio Pekerja Perusahaan Kecil Terhadap Total Pekerja Sektor Industri Pengolahan 1986-1996*

KKKP	Number of Employees of Small Enterprises <i>Jumlah Pekerja Perusahaan Kecil</i>		Rate of Growth <i>Laju Pertumbuhan</i> 1986-1996 (%)	Number of Employees of Medium&Large Enterprises <i>Jumlah Pekerja Perusahaan Sedang &amp; Besar</i>		Rate of Growth <i>Laju Pertumbuhan</i> 1986-1996 (%)	(Employees of Small)/(Total Employees) (Pekerja Prsh.Kecil)/(Total Pekerja)	
	1986	1996		1986	1996		1986	1996
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
311	110,433	187,797	5.45	219,222	397,954	6.14	0.33	0.32
312	106,033	218,589	7.50	90,051	163,430	6.14	0.54	0.57
313	4,763	14,753	11.97	11,836	25,530	7.99	0.29	0.37
314	97,493	218,501	8.40	198,960	223,307	1.16	0.33	0.49
321	46,197	74,458	4.89	310,247	631,688	7.37	0.13	0.11
322	64,712	196,551	11.75	66,098	395,017	19.58	0.49	0.33
323	6,596	17,068	9.97	4,032	26,263	20.61	0.62	0.39
324	15,213	34,455	8.52	8,695	301,748	42.57	0.64	0.10
331	56,334	177,185	12.14	168,595	404,751	9.15	0.25	0.30
332	49,746	160,489	12.43	12,857	157,480	28.47	0.79	0.50
341	2,680	8,854	12.69	25,178	94,431	14.13	0.10	0.09
342	18,796	42,161	8.41	37,353	70,959	6.63	0.33	0.37
351	4,800	1,804	(9.32)	36,318	70,210	6.81	0.12	0.03
352	7,067	15,571	8.22	68,192	116,118	5.47	0.09	0.12
353	154	0	(92.39)	na	709	na	na	0.00
354	77	166	7.98	na	1,914	na	na	0.08
355	4,704	8,651	6.28	90,631	126,816	3.42	0.05	0.06
356	8,104	12,624	4.53	50,278	169,934	12.95	0.14	0.07
361	132	387	11.36	11,883	41,607	13.35	0.01	0.01
362	641	994	4.48	10,075	25,503	9.73	0.06	0.04
363	38,180	66,953	5.78	29,456	50,452	5.53	0.56	0.57
364	65,016	276,739	15.58	22,409	46,894	7.66	0.74	0.86
369	2,094	7,460	13.55	7,157	25,852	13.70	0.23	0.22
371	na	2,468	na	16,894	32,856	6.88	na	0.07
372	na	2,608	na	na	17,564	na	na	0.13
381	26,473	56,311	7.84	59,128	163,464	10.70	0.31	0.26
382	3,510	2,853	(2.05)	16,307	45,365	10.77	0.18	0.06
383	3,212	1,601	(6.73)	38,719	166,395	15.70	0.08	0.01
384	5,444	11,785	8.03	65,099	132,664	7.38	0.08	0.08
385	938	800	1.60	2,388	15,550	20.61	0.28	0.05
390	20,602	52,632	9.83	13,377	72,542	18.42	0.61	0.42
TOTAL	770,144	1,873,268	9.30	1,691,435	4,214,967	9.56	0.31	0.31

Table 15  
Value Added, Number of Enterprises and Employees by Manufacturing Sector 1996  
*Nilai Tambah, Jumlah Perusahaan dan Pekerja Sektor Industri Pengolahan 1996*

KKKP	Value Added (000 Rp) <i>Nilai Tambah (000 Rp)</i>			TOTAL	Number of Enterprises <i>Jumlah Perusahaan</i>			TOTAL	Number of Employees <i>Jumlah Pekerja</i>			TOTAL
	Small Kecil	Medium Sedang	Large Besar		Small Kecil	Medium Sedang	Large Besar		Small Kecil	Medium Sedang	Large Besar	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
311	691,458,210	790,820,533	5,411,465,399	6,893,744,142	26,531	1,940	656	29,127	187,797	71,482	326,472	585,751
312	485,810,997	346,916,333	1,313,333,272	2,146,060,602	30,781	1,656	249	32,686	218,589	59,076	104,354	382,019
313	35,844,873	49,885,710	842,071,732	927,802,316	1,887	202	66	2,155	14,753	7,416	18,114	40,283
314	44,279,350	42,513,269	8,797,379,825	8,884,172,444	22,687	643	196	23,526	218,501	24,875	198,432	441,808
321	226,116,599	270,315,988	9,341,465,719	9,837,898,306	8,901	1,396	859	11,156	74,458	57,069	574,619	706,146
322	828,089,509	262,585,210	3,009,007,381	4,099,682,100	22,954	1,732	597	25,283	196,551	61,410	333,607	591,568
323	91,287,613	32,442,171	255,146,082	378,875,866	2,068	159	67	2,294	17,068	6,047	20,216	43,331
324	191,317,234	54,099,136	2,683,850,908	2,929,267,278	4,032	230	190	4,452	34,455	8,413	293,335	336,203
331	713,777,272	302,797,184	5,568,522,553	6,585,097,009	24,179	1,219	563	25,961	177,185	47,013	357,738	581,936
332	659,452,000	214,117,620	778,554,232	1,652,123,852	20,868	993	370	22,231	160,489	36,487	120,993	317,969
341	43,688,445	83,653,799	3,051,412,280	3,178,754,524	1,052	199	160	1,411	8,854	8,589	85,842	103,285
342	202,059,685	186,045,540	1,494,662,656	1,882,767,881	5,184	540	136	5,860	42,161	21,402	49,557	113,120
351	6,921,098	339,111,333	4,916,429,062	5,262,461,493	242	259	155	656	1,804	11,994	58,216	72,014
352	56,287,814	299,792,161	2,876,116,495	3,232,196,470	1,798	358	263	2,419	15,571	15,859	100,259	131,689
353	0	na	* 6	144,024,198	0	7	1	8	0	298	411	709
354	577,553	14,278,200	19,238,297	34,094,050	26	25	4	55	166	1,049	865	2,080
355	32,437,757	78,483,146	1,656,888,036	1,767,808,939	1,026	189	258	1,473	8,651	8,265	118,551	135,467
356	65,983,016	207,911,450	1,637,706,435	1,911,600,901	1,386	683	379	2,448	12,624	29,811	140,123	182,558
361	1,020,119	80,032,399	683,367,832	764,420,350	36	33	53	122	387	1,286	40,321	41,994
362	7,992,393	18,890,028	842,045,634	868,928,055	117	38	39	194	994	2,066	23,437	26,497
363	184,582,605	190,828,926	1,433,028,362	1,808,439,893	8,580	569	84	9,233	66,953	18,437	32,015	117,405
364	473,653,106	62,592,725	97,514,333	633,760,164	40,258	987	71	41,316	276,739	31,864	15,030	323,633
369	47,817,812	61,595,677	278,870,915	388,284,404	902	223	61	1,186	7,460	8,657	17,195	33,312
371	10,111,535	1,254,901,864	7,448,231,865	8,713,245,264	284	32	71	387	2,468	1,666	31,190	35,324
372	10,165,392	35,071,209	1,113,151,118	1,158,387,719	308	42	37	387	2,608	2,126	15,438	20,172
381	205,397,964	245,768,127	3,692,816,215	4,143,982,306	7,488	698	354	8,540	56,311	27,642	135,822	219,775
382	24,079,369	189,431,624	1,182,829,961	1,396,340,954	299	261	92	652	2,853	10,861	34,504	48,218
383	5,491,932	189,047,982	6,577,109,989	6,766,157,971	174	227	271	672	1,601	11,162	155,233	167,996
384	75,444,840	163,530,053	9,167,063,107	9,406,038,000	1,509	406	213	2,128	11,785	16,846	115,818	144,449
385	2,979,167	20,587,634	248,795,582	272,362,383	90	49	25	164	800	2,014	13,536	16,350
390	168,334,723	72,187,157	610,128,037	850,649,917	6,422	322	140	6,884	52,632	12,644	59,898	125,174
TOTAL	5,592,459,982	6,183,871,694	87,148,590,006	98,924,921,682	242,067	16,317	6,680	265,064	1,873,268	623,826	3,591,141	6,088,235

6.\* is not available for publication, but included in ISIC group values where applicable.

\* adalah tidak bisa dipublikasikan, tetapi tergabung dalam nilai kelompok KLUI lain.

Table 16  
 Percentages of Total Value Added, Enterprises and Employees by Manufacturing Sector 1996  
*Persentase Total Nilai Tambah, Perusahaan dan Pekerja Sektor Industri Pengolahan 1996*

KKKP	Per. of Total Value Added <i>Persentase Total Nilai Tambah</i>			Per. of Total Enterprises <i>Persentase Total Perusahaan</i>			Per. of Total Employees <i>Persentase Total Pekerja</i>		
	Small Kecil	Medium Sedang	Large Besar	Small Kecil	Medium Sedang	Large Besar	Small Kecil	Medium Sedang	Large Besar
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
311	10.03	11.47	78.50	91.09	6.66	2.25	32.06	12.20	55.74
312	22.64	16.17	61.20	94.17	5.07	0.76	57.22	15.46	27.32
313	3.86	5.38	90.76	87.56	9.37	3.06	36.62	18.41	44.97
314	0.50	0.48	99.02	96.43	2.73	0.83	49.46	5.63	44.91
321	2.30	2.75	94.95	79.79	12.51	7.70	10.54	8.08	81.37
322	20.20	6.41	73.40	90.79	6.85	2.36	33.23	10.38	56.39
323	24.09	8.56	67.34	90.15	6.93	2.92	39.39	13.96	46.65
324	6.53	1.85	91.62	90.57	5.17	4.27	10.25	2.50	87.25
331	10.84	4.60	84.56	93.14	4.70	2.17	30.45	8.08	61.47
332	39.92	12.96	47.12	93.87	4.47	1.66	50.47	11.48	38.05
341	1.37	2.63	95.99	74.55	14.11	11.34	8.57	8.32	83.11
342	10.73	9.88	79.39	88.46	9.22	2.32	37.27	18.92	43.81
351	0.13	6.44	93.42	36.89	39.48	23.63	2.51	16.66	80.84
352	1.74	9.28	88.98	74.33	14.80	10.87	11.82	12.04	76.13
353	0.00	na	na	0.00	87.50	12.50	0.00	42.03	57.97
354	1.69	41.88	56.43	46.60	45.65	7.30	7.98	50.43	41.59
355	1.83	4.44	93.73	69.65	12.83	17.52	6.39	6.10	87.51
356	3.45	10.88	85.67	56.61	27.90	15.48	6.92	16.33	76.76
361	0.13	10.47	89.40	29.48	27.06	43.46	0.92	3.06	96.02
362	0.92	2.17	96.91	60.22	19.63	20.15	3.75	7.80	88.45
363	10.21	10.55	79.24	92.93	6.16	0.91	57.03	15.70	27.27
364	74.74	9.88	15.39	97.44	2.39	0.17	85.51	9.85	4.64
369	12.32	15.86	71.82	76.05	18.81	5.14	22.39	25.99	51.62
371	0.12	14.40	85.48	73.38	8.27	18.35	6.99	4.72	88.30
372	0.88	3.03	96.09	79.60	10.85	9.55	12.93	10.54	76.53
381	4.96	5.93	89.11	87.68	8.17	4.15	25.62	12.58	61.80
382	1.72	13.57	84.71	45.88	40.02	14.11	5.92	22.52	71.56
383	0.08	2.79	97.21	25.85	33.80	40.35	0.95	6.64	92.40
384	0.80	1.74	97.46	70.91	19.08	10.01	8.16	11.66	80.18
385	1.09	7.56	91.35	54.96	29.82	15.22	4.89	12.32	82.79
390	19.79	8.49	71.72	93.29	4.68	2.03	42.05	10.10	47.85
TOTAL	5.65	6.25	88.10	91.32	6.16	2.52	30.77	10.25	58.98

Table 17  
 Value Added per Enterprise, Value Added per Employee and Number of Employees per Enterprise by Manufacturing Sector 1996  
*Nilai Tambah per Perusahaan, Nilai Tambah per Pekerja dan Jumlah Pekerja per Perusahaan Sektor Industri Pengolahan 1996*

KKKP	Value Added per Enterprise (000 Rp) <i>Nilai Tambah per Perusahaan (000 Rp)</i>				Value Added per Employee (000 Rp) <i>Nilai Tambah per Pekerja (000 Rp)</i>				Employees per Enterprise <i>Jumlah Pekerja per Perusahaan</i>			
	Small Kecil	Medium Sedang	Large Besar	All Seluruh	Small Kecil	Medium Sedang	Large Besar	All Seluruh	Small Kecil	Medium Sedang	Large Besar	All Seluruh
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
311	26,063	407,639	8,249,185	236,681	3,682	11,063	16,576	11,769	7	37	498	20
312	15,783	209,491	5,274,431	65,656	2,222	5,872	12,585	5,618	7	36	419	12
313	18,994	246,959	12,758,663	430,499	2,430	6,727	46,487	23,032	8	37	274	19
314	1,952	66,117	44,884,591	377,624	203	1,709	44,334	20,109	10	39	1,012	19
321	25,404	193,636	10,874,815	881,849	3,037	4,737	16,257	13,932	8	41	669	63
322	36,076	151,608	5,040,213	162,152	4,213	4,276	9,020	6,930	9	35	559	23
323	44,153	204,039	3,808,150	165,192	5,348	5,365	12,621	8,744	8	38	302	19
324	47,453	235,214	14,125,531	658,013	5,553	6,430	9,149	8,713	9	37	1,544	76
331	29,520	248,398	9,890,804	253,650	4,028	6,441	15,566	11,316	7	39	635	22
332	31,602	215,627	2,104,201	74,318	4,109	5,868	6,435	5,196	8	37	327	14
341	41,540	420,371	19,071,327	2,253,299	4,934	9,740	35,547	30,777	8	43	537	73
342	38,978	344,529	10,990,167	321,295	4,793	8,693	30,160	16,644	8	40	364	19
351	28,598	1,309,310	31,718,897	8,021,855	3,837	28,273	84,452	73,076	7	46	376	110
352	31,307	837,408	10,935,804	1,336,220	3,615	18,904	28,687	24,544	9	44	381	54
353	0	na	na	18,003,025	0	na	na	203,137	0	43	411	89
354	22,630	571,128	4,809,574	622,490	3,479	13,611	22,241	16,391	7	42	216	38
355	31,617	415,255	6,422,047	1,200,180	3,750	9,496	13,976	13,050	8	44	460	92
356	47,614	304,409	4,321,125	780,947	5,227	6,974	11,688	10,471	9	44	370	75
361	28,382	2,425,224	12,893,733	6,268,664	2,636	62,234	16,948	18,203	11	39	761	344
362	68,557	497,106	21,590,914	4,488,725	8,041	9,143	35,928	32,793	9	54	601	137
363	21,513	335,376	17,059,861	195,867	2,757	10,350	44,761	15,403	8	32	381	13
364	11,765	63,417	1,373,441	15,339	1,712	1,964	6,488	1,958	7	32	212	8
369	53,031	276,214	4,571,654	327,473	6,410	7,115	16,218	11,656	8	39	282	28
371	35,613	39,215,683	104,904,674	22,519,107	4,097	753,242	238,802	246,666	9	52	439	91
372	32,977	835,029	30,085,165	2,991,279	3,898	16,496	72,105	57,426	8	51	417	52
381	27,431	352,103	10,431,684	485,255	3,648	8,891	27,189	18,856	8	40	384	26
382	80,475	725,792	12,856,847	2,140,920	8,440	17,441	34,281	28,959	10	42	375	74
383	31,630	832,810	24,269,779	10,074,192	3,430	16,937	42,369	40,276	9	49	573	250
384	50,001	402,783	43,037,855	4,420,412	6,402	9,707	79,151	65,117	8	41	544	68
385	32,990	420,156	9,951,823	1,657,649	3,724	10,222	18,380	16,658	9	41	541	100
390	26,211	224,184	4,358,057	123,564	3,198	5,709	10,186	6,796	8	39	428	18
TOTAL	23,103	378,983	13,046,196	373,211	2,985	9,913	24,268	16,249	8	38	538	23

Table 18  
Value Added, Labor Value Added and Non-Labor Value Added by Manufacturing Sector 1996  
*Nilai Tambah, Nilai Tambah Pekerja dan Nilai Tambah Non-Pekerja Sektor Industri Pengolahan 1996*

KKKP	Value Added (000 Rp) <i>Nilai Tambah (000 Rp)</i>			TOTAL	Labor Value Added (000 Rp) <i>Nilai Tambah Pekerja (000 Rp)</i>			TOTAL	Non-Labor Value Added (000 Rp) <i>Nilai Tambah Non-Pekerja (000 Rp)</i>			TOTAL
	Small <i>Kecil</i>	Medium <i>Sedang</i>	Large <i>Besar</i>		Small <i>Kecil</i>	Medium <i>Sedang</i>	Large <i>Besar</i>		Small <i>Kecil</i>	Medium <i>Sedang</i>	Large <i>Besar</i>	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
311	691,458,210	790,820,533	5,411,465,399	6,893,744,142	148,643,205	121,997,976	1,305,756,183	1,576,397,364	542,815,006	668,822,557	4,105,709,216	5,317,346,778
312	485,810,997	346,916,333	1,313,333,272	2,146,060,602	134,528,716	100,111,852	308,403,768	543,044,336	351,282,280	246,804,481	1,004,929,504	1,603,016,265
313	35,844,873	49,885,710	842,071,732	927,802,316	11,848,705	13,968,774	80,074,264	105,891,743	23,996,168	35,916,936	761,997,468	821,910,572
314	44,279,350	42,513,269	8,797,379,825	8,884,172,444	32,893,477	13,638,496	496,574,679	543,106,652	11,385,873	28,874,773	8,300,805,146	8,341,065,792
321	226,116,599	270,315,988	9,341,465,719	9,837,898,306	64,381,901	92,483,407	1,805,059,534	1,961,924,842	161,734,698	177,832,581	7,536,406,185	7,875,973,464
322	828,089,509	262,585,210	3,009,007,381	4,099,682,100	275,203,815	106,230,628	951,607,861	1,333,042,304	552,885,694	156,354,582	2,057,399,520	2,766,639,796
323	91,287,613	32,442,171	255,146,082	378,875,866	23,664,904	11,556,931	54,525,678	89,747,513	67,622,709	20,885,240	200,620,404	289,128,353
324	191,317,234	54,099,136	2,683,850,908	2,929,267,278	52,739,635	18,446,768	925,728,504	996,914,907	138,577,599	35,652,368	1,758,122,404	1,932,352,371
331	713,777,272	302,797,184	5,568,522,553	6,585,097,009	217,209,809	87,763,719	1,180,520,712	1,485,494,240	496,567,464	215,033,465	4,388,001,841	5,099,602,770
332	659,452,000	214,117,620	778,554,232	1,652,123,852	259,925,687	71,329,994	311,598,634	642,854,315	399,526,213	142,787,626	466,955,598	1,009,269,537
341	43,688,445	83,653,799	3,051,412,280	3,178,754,524	10,330,105	25,065,494	593,412,581	628,808,180	33,358,340	58,588,305	2,457,999,699	2,549,946,344
342	202,059,685	186,045,540	1,494,662,656	1,882,767,881	63,914,219	61,243,468	314,097,126	439,254,813	138,145,466	124,802,072	1,180,565,530	1,443,513,068
351	6,921,098	339,111,333	4,916,429,062	5,262,461,493	1,786,686	74,411,377	630,743,756	706,941,819	5,134,412	264,699,956	4,285,685,306	4,555,519,674
352	56,287,814	299,792,161	2,876,116,495	3,232,196,470	24,597,984	64,984,254	688,715,110	778,297,348	31,689,829	234,807,907	2,187,401,385	2,453,899,122
353	0	na	*	144,024,198	0	na	*	6,446,261	0	na	na	137,577,937
354	577,553	14,278,200	19,238,297	34,094,050	167,336	3,243,651	1,846,309	5,257,296	410,217	11,034,549	17,391,988	28,836,754
355	32,437,757	78,483,146	1,656,888,036	1,767,808,939	10,115,346	18,030,791	383,402,223	411,548,360	22,322,411	60,452,355	1,273,485,813	1,356,260,579
356	65,983,016	207,911,450	1,637,706,435	1,911,600,901	19,311,024	68,018,169	437,410,718	524,739,911	46,671,993	139,893,281	1,200,295,717	1,386,860,991
361	1,020,119	80,032,399	683,367,832	764,420,350	488,108	2,054,730	177,944,528	180,487,366	532,011	77,977,669	505,423,304	583,932,984
362	7,992,393	18,890,028	842,045,634	868,928,055	1,177,239	5,921,479	125,779,996	132,878,714	6,815,154	12,968,549	716,265,638	736,049,341
363	184,582,605	190,828,926	1,433,028,362	1,808,439,893	64,591,352	42,910,881	352,349,273	459,851,506	119,991,252	147,918,045	1,080,679,089	1,348,588,386
364	473,653,106	62,592,725	97,514,333	633,760,164	176,371,893	32,221,795	38,509,862	247,103,550	297,281,214	30,370,930	59,004,471	386,656,615
369	47,817,812	61,595,677	278,870,915	388,284,404	12,050,319	19,912,914	65,884,349	97,847,582	35,767,493	41,682,763	212,986,566	290,436,822
371	10,111,535	1,254,901,864	7,448,231,865	8,713,245,264	4,121,959	4,693,092	293,490,817	302,305,868	5,989,577	1,250,208,772	7,154,741,048	8,410,939,397
372	10,165,392	35,071,209	1,113,151,118	1,158,387,719	3,376,974	7,646,115	94,436,995	105,460,084	6,788,418	27,425,094	1,018,714,123	1,052,927,635
381	205,397,964	245,768,127	3,692,816,215	4,143,982,306	78,628,742	74,327,211	672,938,010	825,893,963	126,769,222	171,440,916	3,019,878,205	3,318,088,343
382	24,079,369	189,431,624	1,182,829,961	1,396,340,954	6,849,242	36,696,588	206,603,454	246,777,942	17,230,127	152,735,036	976,226,507	1,130,569,355
383	5,491,932	189,047,982	6,577,109,989	6,766,157,971	2,451,883	38,827,390	938,374,092	979,653,365	3,040,049	150,220,592	5,638,735,897	5,786,504,606
384	75,444,840	163,530,053	9,167,063,107	9,406,038,000	22,622,742	48,187,971	791,201,582	862,012,295	52,822,098	115,342,082	8,375,861,525	8,544,025,705
385	2,979,167	20,587,634	248,795,582	272,362,383	1,117,644	5,434,443	70,473,612	77,025,699	1,861,523	15,153,191	178,321,970	195,336,684
390	168,334,723	72,187,157	610,128,037	850,649,917	54,303,623	23,629,159	153,185,231	231,118,013	114,031,099	48,557,998	456,942,806	619,531,903
TOTAL	5,592,459,982	6,183,871,694	87,148,590,006	98,924,921,682	1,779,414,274	1,296,397,865	14,455,687,354	17,531,499,493	3,813,045,708	4,887,473,829	72,692,902,652	81,393,422,189

Table 19  
 Labor Value Added per Employee and Non-Labor Value Added per Employee by Manufacturing Sector 1996  
*Nilai Tambah Pekerja per Pekerja dan Nilai Tambah Non-Pekerja per Pekerja Sektor Industri Pengolahan 1996*

KKKP	Labor VA per Employee (000 Rp) <i>NT Pekerja per Pekerja (000 Rp)</i>				Non-Labor VA per Employee (000 Rp) <i>NT Non-Pekerja per Pekerja (000 Rp)</i>				(Non-Labor VA)/(Labor VA) <i>(NT Non-Pekerja)/(NT Pekerja)</i>				(Non-Labor VA)/(Value Added) <i>(NT Non-Pekerja)/(Nilai Tambah)</i>			
	Small Kecil	Medium Sedang	Large Besar	All Seluruh	Small Kecil	Medium Sedang	Large Besar	All Seluruh	Small Kecil	Medium Sedang	Large Besar	All Seluruh	Small Kecil	Medium Sedang	Large Besar	All Seluruh
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
311	792	1,707	4,000	2,691	2,890	9,357	12,576	9,078	3.65	5.48	3.14	3.37	0.79	0.85	0.76	0.77
312	615	1,695	2,955	1,422	1,607	4,178	9,630	4,196	2.61	2.47	3.26	2.95	0.72	0.71	0.77	0.75
313	803	1,884	4,421	2,629	1,627	4,843	42,067	20,403	2.03	2.57	9.52	7.76	0.67	0.72	0.90	0.89
314	151	548	2,502	1,229	52	1,161	41,832	18,879	0.35	2.12	16.72	15.36	0.26	0.68	0.94	0.94
321	865	1,621	3,141	2,778	2,172	3,116	13,115	11,153	2.51	1.92	4.18	4.01	0.72	0.66	0.81	0.80
322	1,400	1,730	2,852	2,253	2,813	2,546	6,167	4,677	2.01	1.47	2.16	2.08	0.67	0.60	0.68	0.67
323	1,387	1,911	2,697	2,071	3,962	3,454	9,924	6,673	2.86	1.81	3.68	3.22	0.74	0.64	0.79	0.76
324	1,531	2,193	3,156	2,965	4,022	4,238	5,994	5,748	2.63	1.93	1.90	1.94	0.72	0.66	0.66	0.66
331	1,226	1,867	3,300	2,553	2,803	4,574	12,266	8,763	2.29	2.45	3.72	3.43	0.70	0.71	0.79	0.77
332	1,620	1,955	2,575	2,022	2,489	3,913	3,859	3,174	1.54	2.00	1.50	1.57	0.61	0.67	0.60	0.61
341	1,167	2,918	6,913	6,088	3,768	6,821	28,634	24,688	3.23	2.34	4.14	4.06	0.76	0.70	0.81	0.80
342	1,516	2,862	6,338	3,883	3,277	5,831	23,822	12,761	2.16	2.04	3.76	3.29	0.68	0.67	0.79	0.77
351	990	6,204	10,835	9,817	2,846	22,069	73,617	63,259	2.87	3.56	6.79	6.44	0.74	0.78	0.87	0.87
352	1,580	4,098	6,869	5,910	2,035	14,806	21,818	18,634	1.29	3.61	3.18	3.15	0.56	0.78	0.76	0.76
353	0	na	na	9,092	0	na	na	194,045	0.00	na	na	21.34	0.00	na	na	0.96
354	1,008	3,092	2,134	2,528	2,471	10,519	20,106	13,864	2.45	3.40	9.42	5.49	0.71	0.77	0.90	0.85
355	1,169	2,182	3,234	3,038	2,580	7,314	10,742	10,012	2.21	3.35	3.32	3.30	0.69	0.77	0.77	0.77
356	1,530	2,282	3,122	2,874	3,697	4,693	8,566	7,597	2.42	2.06	2.74	2.64	0.71	0.67	0.73	0.73
361	1,261	1,598	4,413	4,298	1,375	60,636	12,535	13,905	1.09	37.95	2.84	3.24	0.52	0.97	0.74	0.76
362	1,184	2,866	5,367	5,015	6,856	6,277	30,561	27,779	5.79	2.19	5.69	5.54	0.85	0.69	0.85	0.85
363	965	2,327	11,006	3,917	1,792	8,023	33,755	11,487	1.86	3.45	3.07	2.93	0.65	0.78	0.75	0.75
364	637	1,011	2,562	764	1,074	953	3,926	1,195	1.69	0.94	1.53	1.56	0.63	0.49	0.61	0.61
369	1,615	2,300	3,832	2,937	4,795	4,815	12,387	8,719	2.97	2.09	3.23	2.97	0.75	0.68	0.76	0.75
371	1,670	2,817	9,410	8,558	2,427	750,425	229,392	238,108	1.45	266.39	24.38	27.82	0.59	1.00	0.96	0.97
372	1,295	3,596	6,117	5,228	2,603	12,900	65,987	52,197	2.01	3.59	10.79	9.98	0.67	0.78	0.92	0.91
381	1,396	2,689	4,955	3,758	2,251	6,202	22,234	15,098	1.61	2.31	4.49	4.02	0.62	0.70	0.82	0.80
382	2,401	3,379	5,988	5,188	6,039	14,063	28,293	23,771	2.52	4.16	4.73	4.58	0.72	0.81	0.83	0.82
383	1,531	3,479	6,045	5,831	1,899	13,458	36,324	34,444	1.24	3.87	6.01	5.91	0.55	0.79	0.86	0.86
384	1,920	2,860	6,831	5,968	4,482	6,847	72,319	59,149	2.33	2.39	10.59	9.91	0.70	0.71	0.91	0.91
385	1,397	2,698	5,206	4,711	2,327	7,524	13,174	11,947	1.67	2.79	2.53	2.54	0.62	0.74	0.72	0.72
390	1,032	1,869	2,557	1,846	2,167	3,840	7,629	4,949	2.10	2.06	2.98	2.68	0.68	0.67	0.75	0.73
TOTAL	950	2,078	4,025	2,880	2,036	7,835	20,242	13,369	2.14	3.77	5.03	4.64	0.68	0.79	0.83	0.82

Table 20  
Value Added, Number of Enterprises and Number of Employees of All SML Manufacturing Enterprises 1986-1996  
*Nilai Tambah, Jumlah Perusahaan dan Pekerja Seluruh Perusahaan Sektor Industri Pegolahan 1986-1996*

KKKP	Value Added (000 Rp)		Rate of Growth <i>Laju Pertumbuhan</i> 1986-1996 (%)	Real Rate of Growth <i>Laju Pertumbuhan Riil</i> 1986-1996 (%)	Number of Enterprises		Rate of Growth <i>Laju Pertumbuhan</i> 1986-1996 (%)	Number of Employees		Rate of Growth <i>Laju Pertumbuhan</i> 1986-1996 (%)				
	<i>Nilai Tambah (000 Rp)</i>				<i>Jumlah Perusahaan</i>			<i>Jumlah Pekerja</i>						
	1986	1996			1986	1996		1986	1996					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)				
311	933,761,253	6,893,744,142	22.13	12.15	16,719	29,127	5.71	329,655	585,751	5.92				
312	400,347,449	2,146,060,602	18.28	8.30	14,771	32,686	8.27	196,084	382,019	6.90				
313	128,734,018	927,802,315	21.84	11.86	654	2,155	12.66	16,599	40,283	9.27				
314	1,588,152,560	8,884,172,444	18.79	8.81	10,656	23,526	8.24	296,453	441,808	4.07				
321	1,131,622,349	9,837,898,306	24.14	14.16	6,919	11,156	4.89	356,444	706,146	7.08				
322	236,483,782	4,099,682,100	33.01	23.03	8,100	25,283	12.06	130,810	591,568	16.29				
323	40,228,463	378,875,866	25.14	15.16	858	2,294	10.33	10,628	43,331	15.09				
324	63,581,198	2,929,267,278	46.67	36.69	2,043	4,452	8.10	23,908	336,203	30.26				
331	988,521,273	6,585,097,009	20.88	10.90	8,628	25,961	11.65	224,929	581,936	9.97				
332	80,789,230	1,652,123,852	35.23	25.25	6,925	22,231	12.37	62,603	317,969	17.65				
341	136,905,999	3,178,754,524	36.96	26.98	432	1,411	12.57	27,858	103,285	14.00				
342	218,511,827	1,882,767,881	24.03	14.05	2,518	5,860	8.81	56,149	113,120	7.26				
351	494,051,247	5,262,461,493	26.69	16.71	722	656	(0.95)	41,118	72,014	5.76				
352	509,899,479	3,232,196,470	20.28	10.30	1,233	2,419	6.97	75,259	131,689	5.75				
353	na	144,024,198	na	na	na	8	na	na	709	na				
354	na	34,094,050	na	na	na	55	na	na	2,080	na				
355	291,748,795	1,767,808,939	19.74	9.76	915	1,473	4.88	95,335	135,467	3.58				
356	136,699,940	1,911,600,901	30.19	20.21	1,292	2,448	6.60	58,382	182,558	12.08				
361	34,659,085	764,420,350	36.25	26.27	56	122	8.10	12,015	41,994	13.33				
362	121,571,813	868,928,055	21.73	11.75	110	194	5.84	10,716	26,497	9.48				
363	316,272,289	1,808,439,893	19.05	9.07	5,026	9,233	6.27	67,636	117,405	5.67				
364	52,759,329	633,760,164	28.22	18.24	9,256	41,316	16.14	87,425	323,633	13.98				
369	29,078,984	388,284,404	29.59	19.61	342	1,186	13.24	9,251	33,312	13.67				
371	na	8,713,245,264	na	na	na	387	na	na	35,324	na				
372	na	1,158,387,719	na	na	na	387	na	na	20,172	na				
381	394,865,344	4,143,982,306	26.50	16.52	4,154	8,540	7.47	85,601	219,706	9.88				
382	78,208,259	1,377,347,296	33.22	23.24	539	652	1.92	19,817	48,218	9.30				
383	291,172,988	6,771,649,903	36.98	27.00	543	672	2.15	41,931	167,996	14.89				
384	571,879,212	9,406,038,000	32.32	22.34	927	2,128	8.66	70,543	144,449	7.43				
385	5,808,833	272,362,383	46.93	36.95	127	164	2.59	3,326	16,350	17.26				
390	60,138,685	850,649,917	30.33	20.35	2,779	6,884	9.50	33,979	125,174	13.93				
TOTAL	10,123,786,119	98,924,921,682	25.60	15.62	107,299	265,064	9.47	2,461,579	6,088,235	9.48				